



excellence in engineered wiring

CUSTOM DESIGNED EXTENDABLE CABLES

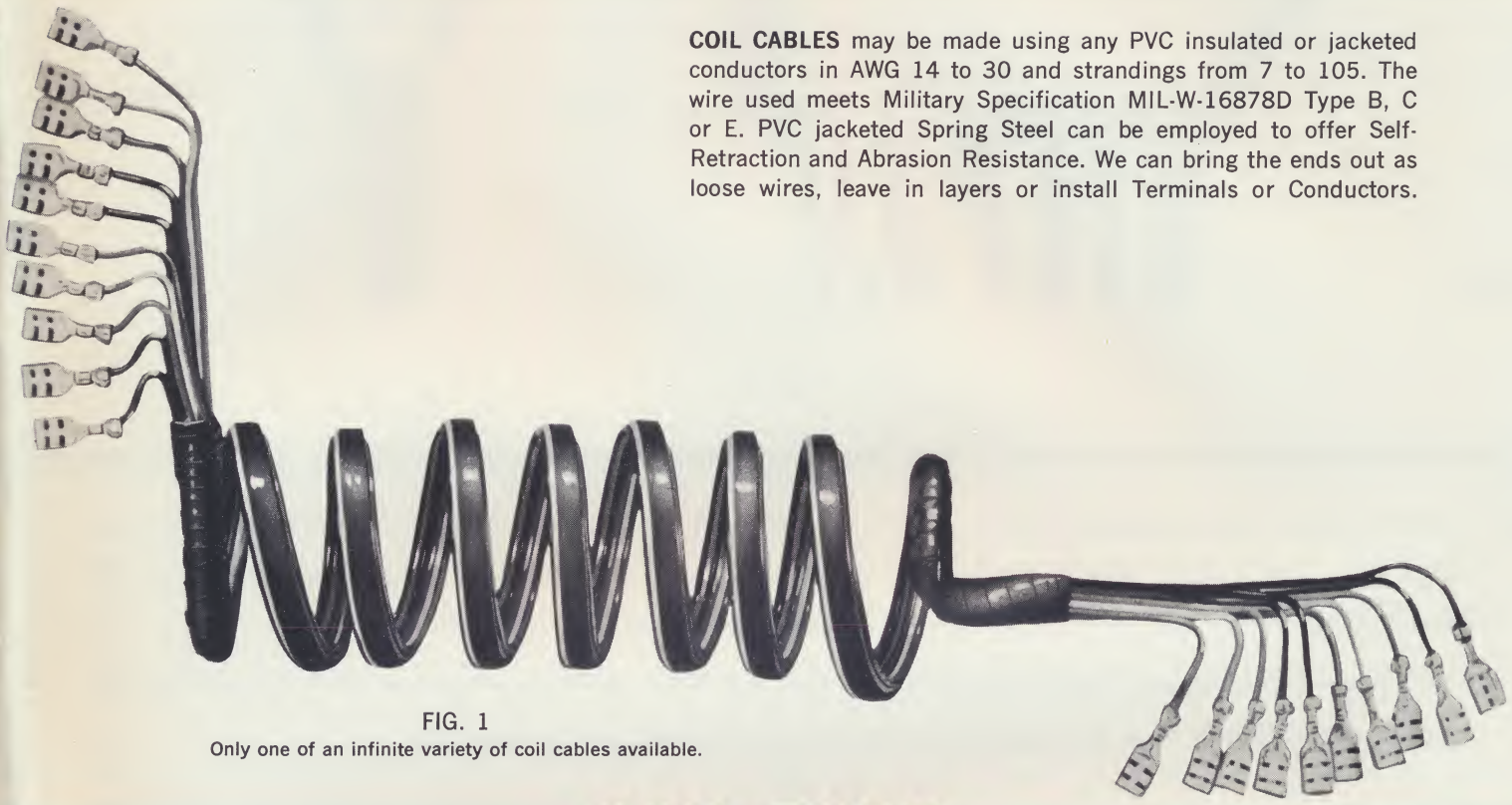


FIG. 1

Only one of an infinite variety of coil cables available.

COIL CABLES may be made using any PVC insulated or jacketed conductors in AWG 14 to 30 and strandings from 7 to 105. The wire used meets Military Specification MIL-W-16878D Type B, C or E. PVC jacketed Spring Steel can be employed to offer Self-Retraction and Abrasion Resistance. We can bring the ends out as loose wires, leave in layers or install Terminals or Conductors.

COIL TYPE

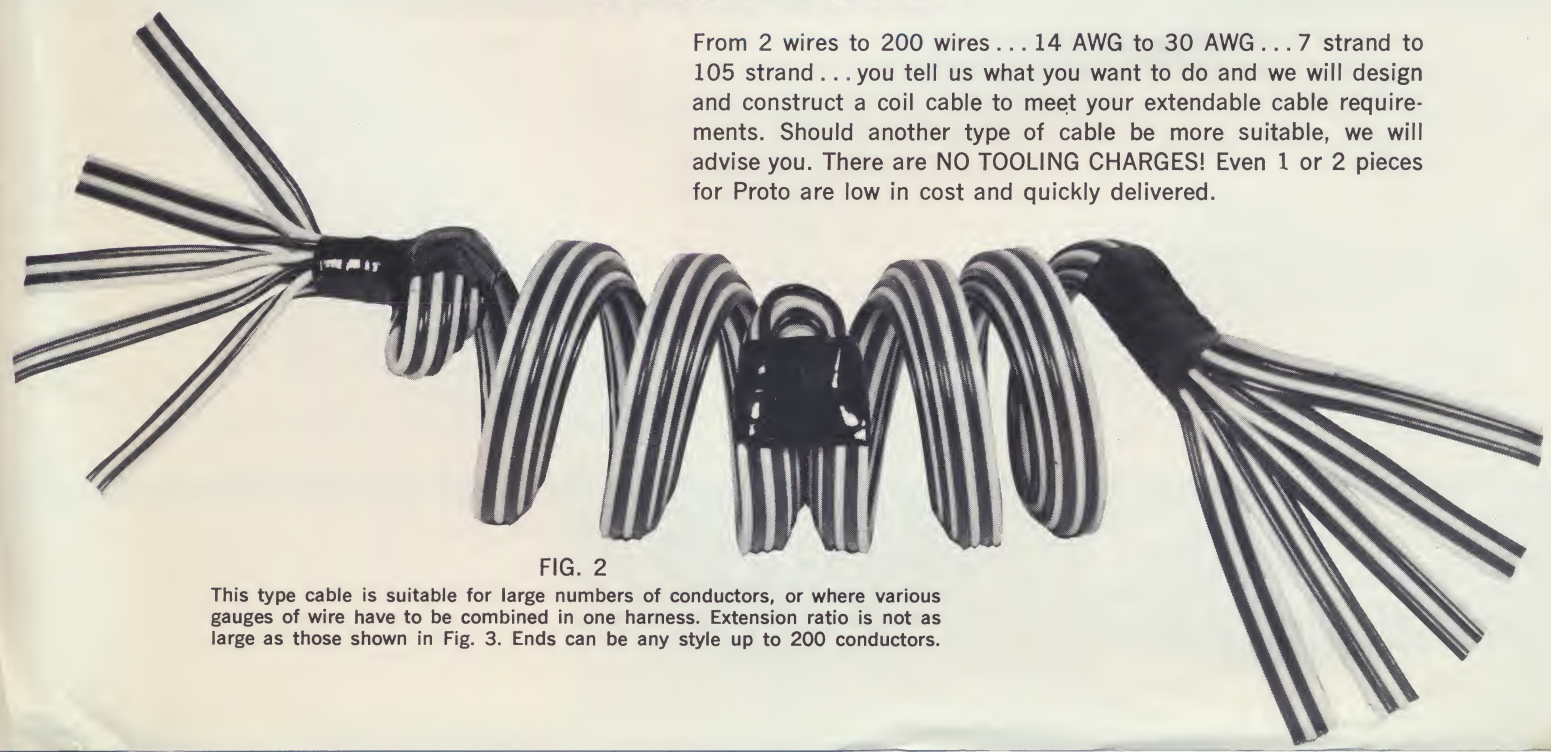


FIG. 2

This type cable is suitable for large numbers of conductors, or where various gauges of wire have to be combined in one harness. Extension ratio is not as large as those shown in Fig. 3. Ends can be any style up to 200 conductors.

From 2 wires to 200 wires... 14 AWG to 30 AWG... 7 strand to 105 strand... you tell us what you want to do and we will design and construct a coil cable to meet your extendable cable requirements. Should another type of cable be more suitable, we will advise you. There are **NO TOOLING CHARGES!** Even 1 or 2 pieces for Proto are low in cost and quickly delivered.

CUSTOM DESIGNED EXTENDABLE CABLES

COIL CABLES FROM ANY PVC INSULATED OR JACKETED CONDUCTOR

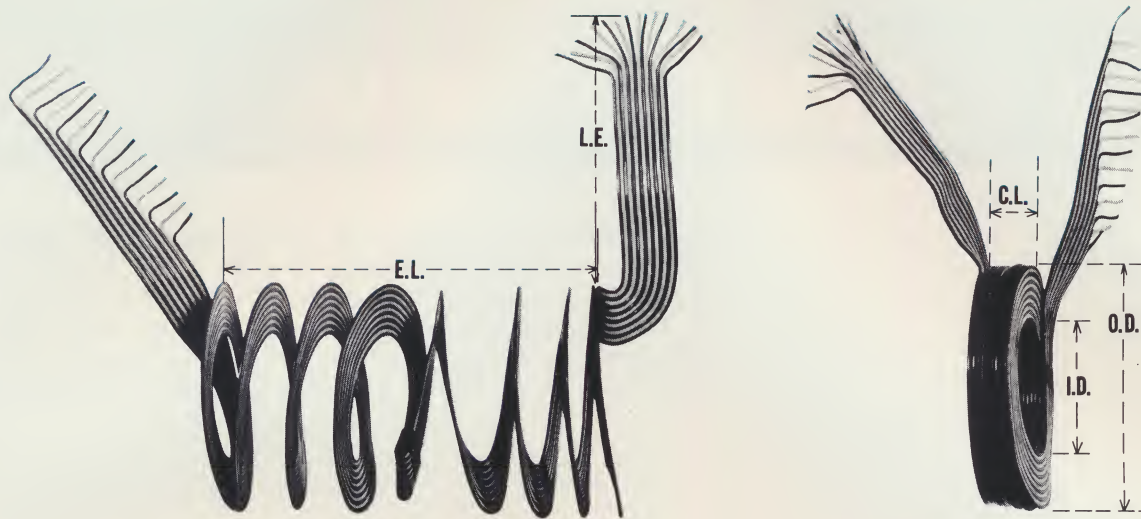


FIG. 3

Typical single layer harness. Ends can be brought out in any manner desired... axial, radial, or tangential. Conductors should be the same size. It can be reversed to eliminate torque on the terminations. This type allows the maximum extended length for given closed length.

Since this cable is not self retracting it often requires some support either on the I.D. or the O.D. Any abrasion can be met by including an extra wire on the I.D. or the O.D.

WIRE MEETS { MIL-W-16878D Type B: 600 Volt, 105°C, .010" Vinyl
MIL-W-16878D Type C: 1,000 Volt, 105°C, .015" Vinyl
MIL-W-16878D Type D: 3,000 Volt, 105°C, .030" Vinyl

Other installations as Teflon®, Silicon Rubber, Nylon, Polyolifin, Fiberglass, may also be incorporated in extensible cables for harnessing applications.

COIL CABLE — DIMENSIONAL DATA

O.D.	Maximum O.D.	
I.D.	Minimum I.D. (if applicable)	
C.L.	Maximum closed length	
E.L.	Maximum extended length	
L.E.	Length of ends (Mark two)	TANGENTIAL
		1 2
		AXIAL
		3 4

CABLE SPECIFICATIONS

No. of Conductors	AWG of Conductors	No. of Strands	Type of Insulation

NUMBER OF UNITS REQUIRED

TEST	PROTO	PRODUCTION

☐ MILITARY ☐ COMMERCIAL _____ No. of Cycles
Operating Temperature Range _____ NUMBER TO BE QUOTED ON _____



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REPRESENTED BY:

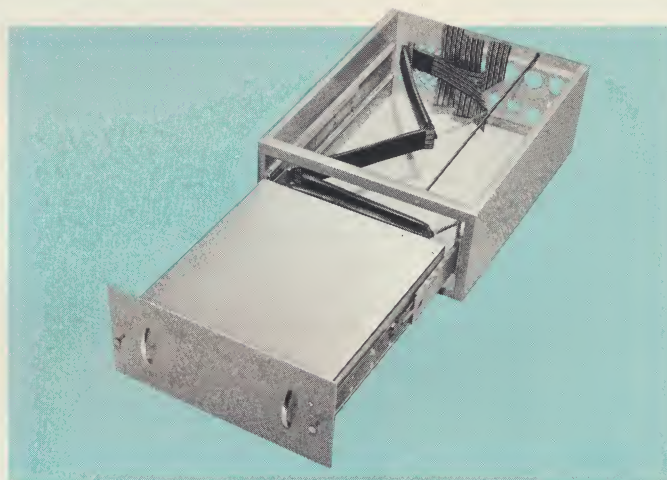
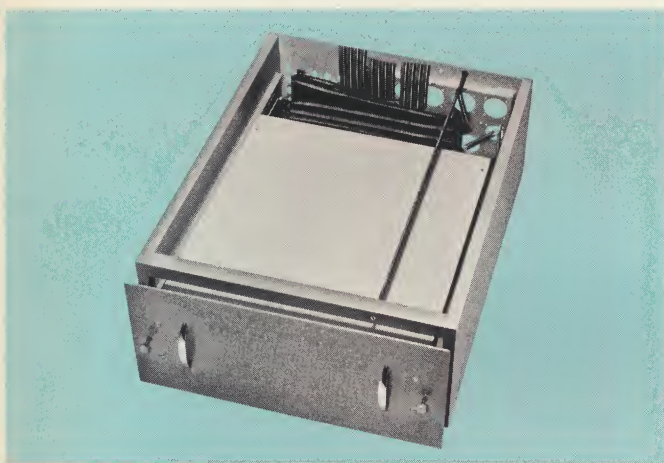


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DRAWER PULL-OUT HARNESSSES

FLAT BONDED CABLE

Spectra-Strip Wire and Cable Corporation is the original manufacturer of the flat bonded cable process. The flat bonded cable allows harnessing up to 1,000 conductors, and even more in special situations, into a very compact flat package. The harness is neat, flexible, efficient and installation or removal can be handled with the utmost ease.

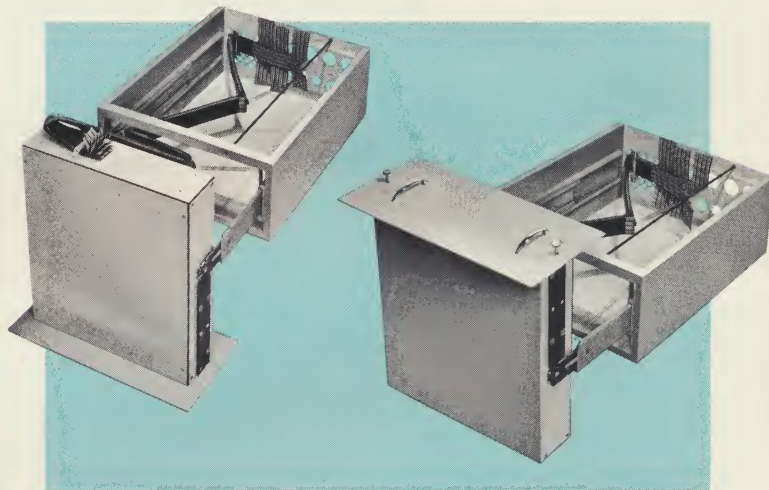
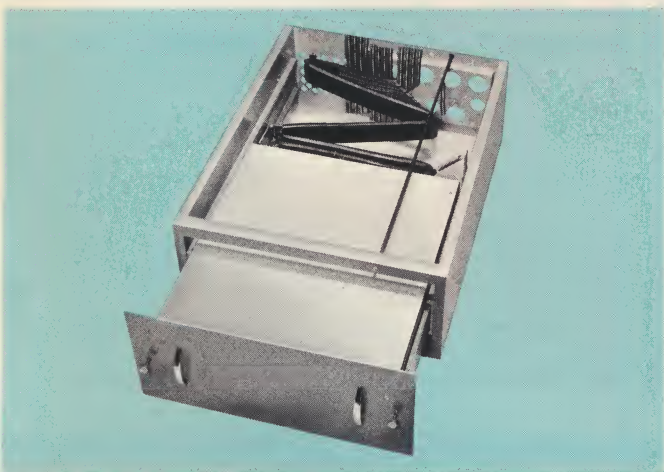


MIL-W 16878D Type B 600 Volt 105°C, .010" Vinyl
 MIL-W 16878D Type C 1,000 Volt 105°C, .015" Vinyl
 MIL-W 16878D Type D 3,000 Volt 105°C, .030" Vinyl

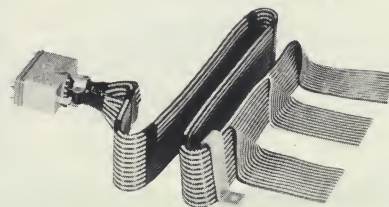
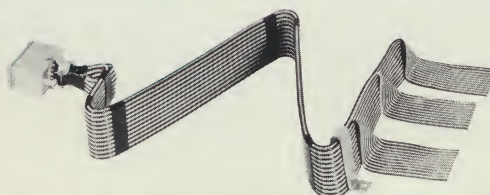
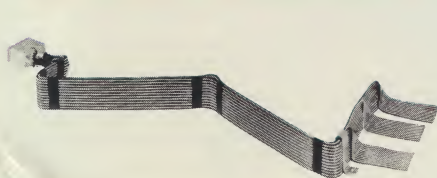
Other installations as Teflon® Silicon Rubber, Nylon, Polyolfin, Fiberglass, may also be incorporated in extensible cables for harnessing applications.

DRAWER PULL-OUT HARNESSSES

The unique features of the Spectra-Flex® Flat bonded pull-out harnesses are the application and material that may be utilized. Wire sizes from 10 to 30 AWG. The number of conductors or width of the cable are limitless. Any shielded, coax, Teflon®* or twisted pair wires with PVC jacket may be used.



Custom designed to provide the finest harness pull-out assemblies to meet your particular requirement. Spectra-Strip's drawer pull-out harnesses eliminate expensive hardware normal to other types of harnessing assemblies. Extensible and retractable harnesses for many other applications have been manufactured from custom designs. Spectra-Strip will be happy to assist you in the design and manufacture of harness assemblies to fit your requirements.

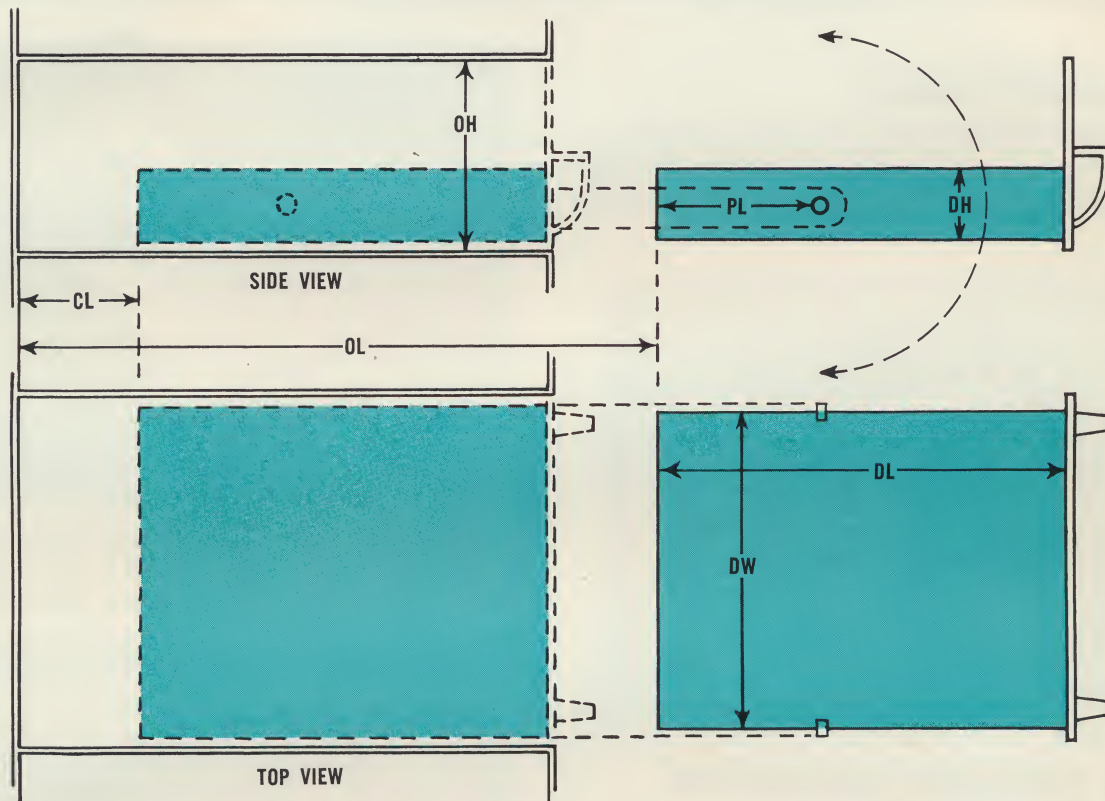


CUSTOM DESIGNED EXTENDABLE CABLES

'ACCORDIAN STYLE'

GIVE US THE SPECIFICATIONS AND WE WILL DESIGN AND MANUFACTURE CABLES TO FIT YOUR APPLICATION. THIS TYPE CABLE IS ADAPTABLE TO MANY USES OTHER THAN ELECTRONIC DRAWER PULL-OUTS BUT THIS IS MOST COMMON AND TYPICAL. WE CAN INSTALL CONNECTORS OR TERMINALS OR LEAVE ENDS LOOSE FOR ROUTING.

FILL OUT THE SPECIFICATIONS BELOW AND YOU CAN BE SURE OF PROMPT ACTION.



DRAWER SPECIFICATIONS

DH = DRAWER HEIGHT _____
DL = DRAWER LENGTH _____
DW = DRAWER WIDTH _____
OH = OPENING HEIGHT _____
PL = PIVOT LENGTH? _____
OL = OPEN LENGTH _____
CL = CLOSED LENGTH _____

Indicate type and location of Connectors or terminations. _____

Indicate degree of Tilt if any. _____

☐ MILITARY ☐ Commercial

Operating Temperature Range _____

*Teflon: A product of the E. I. du Pont de Nemours & Co., Inc.

CABLE SPECIFICATIONS

No. of Conductors	AWG of Conductors	No. of Strands	Type of Insulation

Number of units required

TEST	PROTO	PRODUCTION

Number to be Quoted on _____



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MAGNA-STRIP®

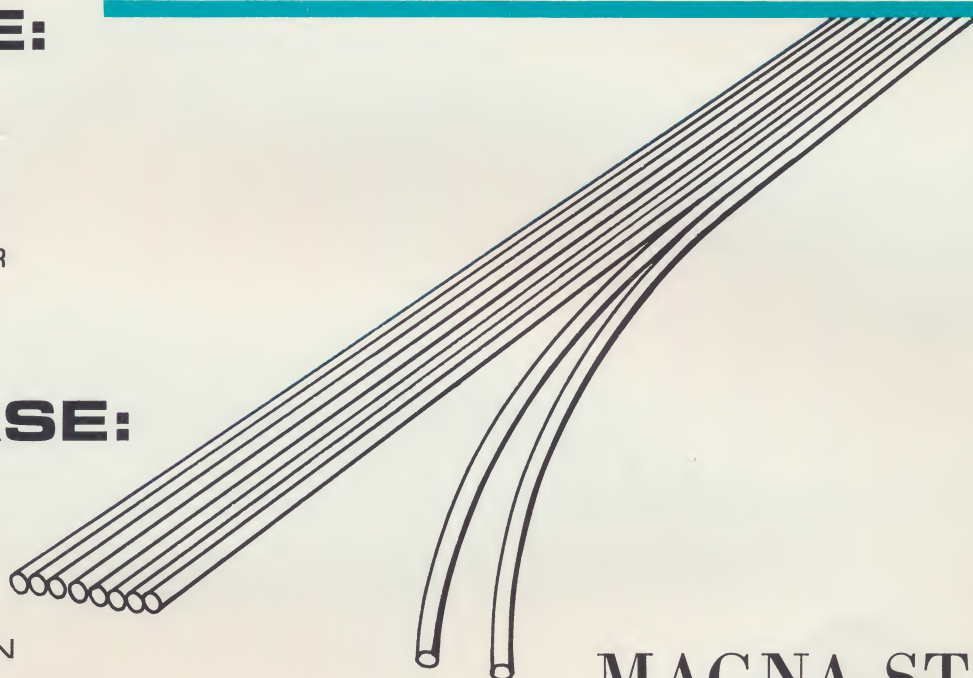
FLAT BONDED MAGNET WIRE

REDUCE:

- WEIGHT
- SPACE
- LABOR
- WIRING ERROR
- STRING TIES

INCREASE:

- FLEXIBILITY
- RELIABILITY
- NEATNESS
- IDENTIFICATION
- EASE OF HANDLING



MAGNA-STRIP®

RIBBONIZED MAGNET WIRE DOWN TO 44 AWG

Individual wires meet or exceed MIL-W-5838
Type T, T1. Class A, 105°C.

Wires insulated with single or heavy
FORMVAR, or POLYURETHANE (Solderable).

Any number of conductors in most sizes from
AWG #22 to AWG #44.

USES: Wiring of memory core matrix.

Winding of toroid coils.

Wiring of miniature printed circuits.

Any application where 2 or more conductors
of magnet wire travel together.

Our patented bonding process does not detrimentally affect the insulation of the wire and the wires may be separated with no breaking of insulation. The bonding material will soften at about 80°C or may be softened with various solvents and the wire will still meet its original specifications.

Since we produce MAGNA-STRIP from single conductor magnet wire, manufactured by such firms as Phelps Dodge, we package and sell the cable on a footage basis rather than on a pound basis. Although the original cost of the cable is higher than regular magnet wire the savings is realized in lower labor costs in the end product.

Let us work together for: EXCELLENCE IN ENGINEERED WIRING

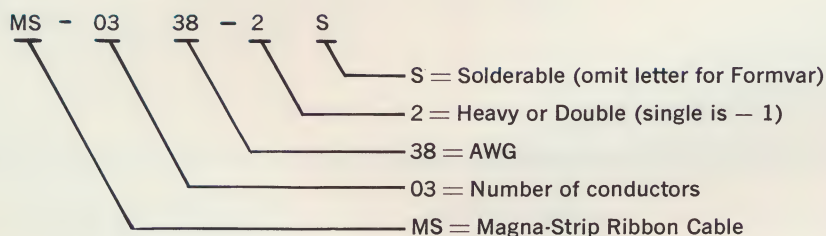
MAGNA-STRIP® *the most compact electronic cable in the world*

160,000 conductors are possible in a 1 sq. inch cross section using 44 AWG wire with 400 conductors per inch of width and 400 layers high. Using 38 AWG you can get 40,000 conductors per sq. inch. This certainly illustrates the tremendous space savings possible in cables of this method. Most requirements however are for 2 or 3 conductors in sizes 30 to 38 AWG.

To indicate the sizes in most common usage and those which we carry in stock to make into ribbon cable to your specifications, we have developed the following tabulations. Other sizes may be in stock, but if not it may require a minimum order of 300 pounds or more and several months for delivery.

INSULATION TYPES	WIRE SIZES AND INSULATION TYPES AVAILABLE IN MAGNA-STRIP CABLE																				
	22	23	24	26	27	28	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44
SINGLE FORMVAR (1)	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆
HEAVY FORMVAR (2)			☆	☆	☆	☆	☆	☆					☆	☆	☆	☆	☆		☆		☆
SINGLE SOLDERABLE (1)	☆				☆	☆	☆	☆	☆	☆	☆		☆		☆				☆		
HEAVY SOLDERABLE (2)									☆						☆						

TYPICAL PART NUMBER



For weights and measures use a standard magnet wire table such as supplied by Phelps Dodge, REA, Belden or Anaconda. The additional coating used in bonding is so small that for practical purposes it is not included. For total cable width, simply multiply the O.D. of the individual wire times the number of conductors.

The VALUE of MAGNA-STRIP is in its savings produced in the end product, by lower labor costs and high reliability.

COLOR: Formvar is a natural or amber color. Solderable is usually red in color.

DELIVERY: Allow about 2 weeks for shipment.

PACKAGING: Narrow cables are level wound on plastic spools. Wide cables are layer wound in flat rolls.

TERMS: Net 30 days — FOB Garden Grove, California.

PRICES: All Magna-Strip items are priced on a footage basis and not on a pound basis. All prices must be confirmed by the factory. Minimum order is \$15.00.

SPECTRA-STRIP

RE & CABLE CORP.

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